

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 03/22294

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 B04C5/103 B04C5/13

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B04C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 795 561 A (ASLIN DAVID J) 3 January 1989 (1989-01-03) column 2, line 3 - line 8 column 2, line 62 - column 3, line 19 column 3, line 53 - line 56 figures 1-3	1-6
Y	EP 0 052 042 A (AUSSENARD MICHEL) 19 May 1982 (1982-05-19) page 3, line 5 - line 24 page 4, line 11 - line 22 figure 1A	1-6
Y	US 1 753 502 A (CLARK WILLIAM G) 8 April 1930 (1930-04-08) page 1, line 89 - line 97 figures 2-4	1-6

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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Date of the actual completion of the international search

2 December 2003

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22/12/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Redelsperger, C

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 072 481 A (LAVAL JR CLAUDE C) 7 February 1978 (1978-02-07) column 1, line 12 - line 16 column 3, line 49 - line 68 figures 1,2,8 -----	1-4
A	US 3 940 331 A (RASTATTER EDWARD L) 24 February 1976 (1976-02-24) abstract figure 2 -----	8

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Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4795561	A	03-01-1989	NONE	
EP 0052042	A	19-05-1982	FR 2493186 A1 EP 0052042 A2 JP 57107253 A	07-05-1982 19-05-1982 03-07-1982
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US 4072481	A	07-02-1978	NONE	
US 3940331	A	24-02-1976	US 3984308 A CA 1081622 A1 CA 1105848 A2 DE 2547228 A1 FR 2289245 A1 GB 1529948 A JP 51066558 A SE 416449 B SE 7512044 A	05-10-1976 15-07-1980 28-07-1981 13-05-1976 28-05-1976 25-10-1978 09-06-1976 05-01-1981 03-05-1976